STIC Search Report

EIC 2100

STIC Database Tracking Number: 105873

TO: Chongshan Chen	From: Carol Wong
Location: 4B25	Location: EIC 2100
Art Unit : 2172	PK2-4B33
Tuesday, October 14, 2003	Phone: 305-9729
Case Serial Number: 09/775715	carol.wong@uspto.gov

Search Notes

Dear Examiner Chen,

Attached are the search results (from commercial databases) for your case.

Color tags mark the patents/articles which appear to be most relevant to the case.

Please call if you have any questions or suggestions for additional terminology, or a different approach to searching the case.

Thanks,
Carol

STIC EIC 2100
Search Request Form

105873

Today's Date: 10/14/03	What date would you like to use to limit the search?
	Priority Date: 2/1/01 Other:

Name **Chongshan Chen**

AU **2172**   Examiner # **79547**

Room # **4B25**   Phone **305-8319**

Serial # **09/775,715**

Format for Search Results (Circle One):
(PAPER)   DISK   EMAIL

Where have you searched so far?
(USP)   DWPI   EPO   JPO   ACM   IBM TDB
IEEE   INSPEC   SPI   Other _____

Is this a "Fast & Focused" Search Request? (Circle One) (YES)   NO
A "Fast & Focused" Search is completed in 2-3 hours (maximum). The search must be on a very specific topic and meet certain criteria. The criteria are posted in EIC2100 and on the EIC2100 NPL Web Page at http://ptoweb/patents/stic/stic-tc2100.htm.   *Applicant*

What is the topic, novelty, motivation, utility, or other specific details defining the desired focus of this search? Please include the concepts, synonyms, keywords, acronyms, definitions, strategies, and anything else that helps to describe the topic. Please attach a copy of the abstract, background, brief summary, pertinent claims and any citations of relevant art you have found.

A system for user behavior based ranking of a document, comprising:

means for determining a feature vector (matrix) associated with a document, the feature vector comprising weights for certain terms that appear in the document; and

means for modifying the feature vector for the document based on a sample of user actions captured during a search session so that the document is more highly ranked in response to the user actions.

STIC Searcher **Carol Wong**	Phone **305-9729**
Date picked up **10-14-03**	Date Completed **10-14-03**

SIRA
Search and Information
Resources Administration

```
File    9:Business & Industry(R)  Jul/1994-2003/Oct 13
          (c) 2003 Resp. DB Svcs.
File   16:Gale Group PROMT(R) 1990-2003/Oct 13
          (c) 2003 The Gale Group
File   47:Gale Group Magazine DB(TM) 1959-2003/Oct 10
          (c) 2003 The Gale group
File  148:Gale Group Trade & Industry DB 1976-2003/Oct 13
          (c)2003 The Gale Group
File  160:Gale Group PROMT(R) 1972-1989
          (c) 1999 The Gale Group
File  275:Gale Group Computer DB(TM) 1983-2003/Oct 13
          (c) 2003 The Gale Group
File  621:Gale Group New Prod.Annou.(R) 1985-2003/Oct 13
          (c) 2003 The Gale Group
File  636:Gale Group Newsletter DB(TM) 1987-2003/Oct 13
          (c) 2003 The Gale Group
? ds
```

```
Set      Items    Description
S1      6609696   RANK??? ? OR WEIGH??? ? OR RATE OR RATES OR RATING? OR RAT-
                  ED OR SCORE OR SCORES OR SCORED OR SCORING? OR VALUATION?
S2       70393    PRIORITIS? OR PRIORITIZ?
S3      546438    SORT OR SORTS OR SORTED OR SORTING?
S4      900255    S1:S2(2N)(HIGH??? ? OR ELEVAT? OR INCREAS?)
S5       41020    S1:S3(3N)(DOCUMENT? ? OR RECORD? ?)
S6      194729    S1:S3(3N)(PUBLICATION? ? OR FILE OR FILES OR FOLDER? ? OR -
                  REPORT? ? OR MESSAGE OR MESSAGES)
S7        3150    S1:S3(3N)OBJECT? ?
S8      4537133   BEHAVIOR? ? OR BEHAVIOUR? ? OR ACTION? ? OR REACTION? OR R-
                  EACTING? OR ACT OR ACTS OR ACTED OR REACT? ? OR REACTED OR RE-
                  ACTING
S9      8994835   VIEW OR VIEWS OR VIEWED OR VIEWING OR CLICK??? ? OR LOOK??
                  ? OR SEEN OR DISPLAY? OR SELECT OR SELECTS OR SELECTED OR SEL-
                  ECTION? OR SELECTING
S10     1696611   CHOSE? ? OR CHOOS??? ?
S11      980920   S8:S10(3N)(USER? ? OR SEARCHER? OR CLIENT? ? OR SUBSCRIBER?
                  OR REQUEST?R? ? OR CONSUMER? OR CUSTOMER? OR PATRON? ? OR IN-
                  DIVIDUAL? ? OR PERSON? ? OR PARTICIPANT? OR MEMBER? ?)
S12      165987   S1:S3(3N)(TERM OR TERMS OR WORD OR WORDS OR TERMINOLOG? OR
                  PHRASE OR PHRASES OR TEXT? ? OR LEXEME? ? OR MORPHEME? ?)
S13       1559    S11(25N)S5:S7
S14         67    S13(S)S4
S15         33    S13(S)S12
S16          3    S13(S)(VECTOR? OR MATRICE? OR MATRIX?)
S17        103    S14:S16
S18         25    S17/2002:2003
S19         78    S17 NOT S18
S20         50    RD (unique items)
? t20/3,k/1,19
```

 20/3,K/1   (Item 1 from file: 9)
DIALOG(R)File   9:Business & Industry(R)
(c) 2003 Resp. DB Svcs. All rts. reserv.

2920541 Supplier Number: 02920541   (USE FORMAT 7 OR 9 FOR FULLTEXT)
Don't reinvent the wheel
(Net Perceptions is introducing Knowledge Management 2.0, which aims to get
  rid of redundant management practices)
KMWorld, v 9, n 7, p 1+
September 2000
DOCUMENT TYPE: Journal ISSN: 1060-894X (United States)

LANGUAGE: English RECORD TYPE: Fulltext
WORD COUNT: 700

      (USE FORMAT 7 OR 9 FOR FULLTEXT)

TEXT:
...one to five. The software can also infer value from a behavioral aspect.
If a **person** is searching and **clicks** through on a document for a certain
reason, maybe the author, the date, abstract, it gets a score. If she
saves it, the **document** gets a **higher** **score** . If she accesses it
repeatedly, it gets **rated** even **higher** . Additionally, documents can be
presented back to the user. The software asks for feedback and...

 20/3,K/19   (Item 5 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

04081662   SUPPLIER NUMBER: 15450369   (USE FORMAT 7 OR 9 FOR FULL TEXT)
TARGET & FREESTYLE: DIALOG and Mead join the relevance ranks. (online
   searching systems; DIALOG Information Services Inc., Mead Data Central
   Inc.) (Software Review) (Evaluation)
Tenopir, Carol; Cahn, Pamela
Online, v18, n3, p31(12)
May, 1994
DOCUMENT TYPE: Evaluation   ISSN: 0146-5422   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 5703   LINE COUNT: 00453

...   weight. Unequal document lengths are taken into account as well as
are proximity of search **words** .
      The resulting **document**   **ranking** is used as the basis for order of
display. Unlike Boolean's reverse chronological **display** or a **user**
-specified sorting order such as alphabetically by author, relevance
ranking displays first **documents** that are most likely to answer the
user's query. This is good output for...
? t20/3,k/20,24,28,32

 20/3,K/20   (Item 6 from file: 47)
DIALOG(R)File 47:Gale Group Magazine DB(TM)
(c) 2003 The Gale group. All rts. reserv.

03985111   SUPPLIER NUMBER: 14669412   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Evaluating commercial text search-and-retrieval packages.
Glassco, Richard A.
Information Technology and Libraries, v12, n4, p413(9)
Dec, 1993
ISSN: 0730-9295   LANGUAGE: ENGLISH   RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 4382   LINE COUNT: 00354

...   search criteria. Text systems usually perform the search by
comparing search terms with an index **file** containing a **sorted** list of
words found in the document database. The fist of documents returned to
the user is generally called a hit list. Third, the **user**   **selects**
documents from the hit list and browses them, reading and perhaps printing
selected portions of...schemes by which the machine can assign relevance
scores to documents. These schemes include using **term**   **weights** , giving
greater **weight** to more recent documents, giving greater weight to
documents containing the Highest number of hits, giving greater weight to
documents containing the most different search **terms** , giving greater

weight to documents with the highest search-term density (number of search-term hits divided by...giving greater weight to documents with search terms occurring most closely together, and giving greater **weight** to those search **terms** that occur least frequently in the inverted index (these terms are assumed to have the best ability to discriminate between relevant and irrelevant **documents**).

Once a relevance **score** has been computed for each matching **document** , the system **sorts** the **document** titles before **displaying** them to the **user** . The user niay specify a relevance threshold, above which all documents are retrieved and displayed...

20/3,K/24   (Item 1 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

14128870   SUPPLIER NUMBER: 80850040   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Web search--your way: improving web searching with user preferences.
Glover, Eric J.; Lawrence, Steve; Gordon, Michael D.; Birmingham, William
P.; Giles, C. Lee
Communications of the ACM, 44, 12, 97(6)
Dec, 2001
ISSN: 0001-0782   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 3749   LINE COUNT: 00337

...   dynamic display applet dynamically reorders results as they are retrieved and analyzed, always displaying the **highest   ranked   documents** among those retrieved so far. The dynamic **display** applet allows **users** to examine the results that have been processed at any point during a search, while...

20/3,K/28   (Item 5 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

09718889   SUPPLIER NUMBER: 19679200   (USE FORMAT 7 OR 9 FOR FULL TEXT)
AltaVista: Beyond Advanced Searching. (online searching)
Information Advisor, v9, n7, p1(7)
July, 1997
ISSN: 1050-1576   LANGUAGE: English   RECORD TYPE: Fulltext
WORD COUNT: 5605   LINE COUNT: 00428

...   weight to documents that contain that phrase (but still find documents that contain the individual **words** , too).
Greenlar: **Weight** depends on the search the end-user is looking for. We make no assumptions about the minds or wants of our end- **users** . We **look** at the whole **document** . To optimize our **ranking** on one example or type of search would weaken the power of other searches for...

20/3,K/32   (Item 9 from file: 148)
DIALOG(R)File 148:Gale Group Trade & Industry DB
(c)2003 The Gale Group. All rts. reserv.

06509252   SUPPLIER NUMBER: 14364395   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Check out the new RANK command on DIALOG. (DIALOG Information Services new
  online command function)
Quint, Barbara
Searcher, v1, n2, p36(3)

...   way, the new DIALOG RANK has nothing to do with the old--and
loved--VU/ **TEXT   RANK** Method A. The VU/ **TEXT** command could **RANK** and .
re-sort results from a set by occurrences of words in fields. At present...

...day," says Hudnut. The new Sort OCC (Sort Occurrence) command on STN
International will let **searchers   sort** and **display   records** from the
highest to the lowest number of occurrences of search terms in the **records**
 retrieved.
        Judgment
        The **RANK** command is very powerful and very promising, but searchers
should be cautious in using the...
...OneSearch or even in a single file that stretches across the decades
with unreconciled thesaurus **terminology** .
        Using **RANK** for statistical analysis could prove very tricky,
especially if the searcher does not know the...
? t20/3,k/42,44-45,49

 20/3,K/42   (Item 3 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01708975   SUPPLIER NUMBER: 16178923   (USE FORMAT 7 OR 9 FOR FULL TEXT)
**Wide area information servers. (includes related articles on WAIS searches
    and on the use of a public WAIS) (Technical)**
Buhle, E. Loren, Jr.
Digital Systems Journal, v16, n5, p13(4)
Sept-Oct, 1994
DOCUMENT TYPE: Technical   ISSN: 1067-7224   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT; ABSTRACT
WORD COUNT: 2631   LINE COUNT: 00233

...   of documents satisfying the query are displayed. The selected
documents contain the requested words and **phrases** . Selected **documents**
are **ranked** according to the number of matches.
        5. To retrieve a document, the **user** simply **selects** it from the
resulting list.
        6. If the response is incomplete, the user can state...

 20/3,K/44   (Item 5 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01644000   SUPPLIER NUMBER: 16201478
**Caere delivers intelligent document management: from OCR to a desktop
    solution. (PageKeeper) (text processing software) (Software Review)
    (Evaluation)**
Berry, M.
Workgroup Computing Report, v17, n7, p24(3)
July, 1994
DOCUMENT TYPE: Evaluation   ISSN: 1068-9699   LANGUAGE: ENGLISH
RECORD TYPE: ABSTRACT

...ABSTRACT: and creates a database based on the information. Information
can be accessed either by using **weighted   word** or document agent
searches. The **weighted   word** search lets users input natural language

queries to start their searches, while the document agent search requires
users to **select** a document as a model and searches for similar
documents. When the software finds matching...

20/3,K/45   (Item 6 from file: 275)
DIALOG(R)File 275:Gale Group Computer DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

01584388   SUPPLIER NUMBER: 13440954   (USE FORMAT 7 OR 9 FOR FULL TEXT)
Creating a CD-ROM: overview of the product field. (CD-ROM authoring and
   data retrieval software packages; includes company directory and related
   article on resources for doing research) (Buyers Guide)
Banet, Bernard
Seybold Report on Desktop Publishing, v7, n6, p3(29)
Feb 1, 1993
DOCUMENT TYPE: Buyers Guide   ISSN: 0889-9762   LANGUAGE: ENGLISH
RECORD TYPE: FULLTEXT
WORD COUNT: 17829   LINE COUNT: 01443

...   a probable order of relevance. To initiate this process, the user
manually assigns a numerical **weight** to each search **term** in a list. The
software finds all documents containing any of the **terms** and **ranks** them
by first multiplying the **word** **weight** assigned to each **word** by the
number of occurrences of that search term in a document. Then these
products are summed to generate a **document** **weight** , which can then be
ranked against other documents .
     When the **ranking** is complete, the **user** is invited to **select** a
likely **document** header from the **ranked** list and zoom down into the
document, then the paragraph and then the sentence that...

20/3,K/49   (Item 3 from file: 636)
DIALOG(R)File 636:Gale Group Newsletter DB(TM)
(c) 2003 The Gale Group. All rts. reserv.

03108818   Supplier Number: 46355315 (USE FORMAT 7 FOR FULLTEXT)
WORLD WIDE WEB SEARCH ENGINES: ALTAVISTA & YAHOO
Online Libraries & Microcomputers, v14, n5, pN/A
May 1, 1996
Language: English   Record Type: Fulltext
Document Type: Newsletter; Professional Trade
Word Count: 2263

...   With such a large volume of information, a relevance ranked search
engine was designed which **scores** each **document** that was retrieved.
Those documents which have a **higher** **score** are **displayed** to the **user**
first.
     Hardware Used with AltaVista
     The entire AltaVista search service is built around Digital's...
?

? ds

Set	Items	Description
S1	7759995	RANK??? ? OR WEIGH??? ? OR RATE OR RATES OR RATING? OR RAT-ED OR SCORE OR SCORES OR SCORED OR SCORING? OR VALUATION?
S2	80429	PRIORITIS? OR PRIORITIZ?
S3	986942	SORT OR SORTS OR SORTED OR SORTING?
S4	1114043	S1:S2(2N)(HIGH??? ? OR ELEVAT? OR INCREAS?)
S5	56151	S1:S3(3N)(DOCUMENT? ? OR RECORD? ?)
S6	128779	S1:S3(3N)(PUBLICATION? ? OR FILE OR FILES OR FOLDER? ? OR -REPORT? ? OR MESSAGE OR MESSAGES)
S7	3197	S1:S3(3N)OBJECT? ?
S8	6670707	BEHAVIOR? ? OR BEHAVIOUR? ? OR ACTION? ? OR REACTION? OR R-EACTING? OR ACT OR ACTS OR ACTED OR REACT? ? OR REACTED OR RE-ACTING
S9	10949834	VIEW OR VIEWS OR VIEWED OR VIEWING OR CLICK??? ? OR LOOK?? ? OR SEEN OR DISPLAY? OR SELECT OR SELECTS OR SELECTED OR SEL-ECTION? OR SELECTING
S10	2024067	CHOSE? ? OR CHOOS??? ?
S11	896143	S8:S10(3N)(USER? ? OR SEARCHER? OR CLIENT? ? OR SUBSCRIBER? OR REQUEST?R? ? OR CONSUMER? OR CUSTOMER? OR PATRON? ? OR IN-DIVIDUAL? ? OR PERSON? ? OR PARTICIPANT? OR MEMBER? ?)
S12	228156	S1:S3(3N)(TERM OR TERMS OR WORD OR WORDS OR TERMINOLOG? OR PHRASE OR PHRASES OR TEXT? ? OR LEXEME? ? OR MORPHEME? ?)
S13	1093	S11(25N)S5:S7
S14	84	S13(S)S4
S15	27	S13(S)S12
S16	2	S13(S)(VECTOR? OR MATRICE? OR MATRIX?)

```
S17        111    S14:S16
S18         18    S17/2002:2003
S19         93    S17 NOT S18
S20         75    RD (unique items)
S21         72    S20 NOT CONSUMER()REPORT? ?
S22         64    S21 NOT (RATE? ?(1W)RETURN? OR TAX OR TAXES OR LOAN? ?)
? t22/3,k/11
```

22/3,K/11   (Item 10 from file: 15)
DIALOG(R)File   15:ABI/Inform(R)
(c) 2003 ProQuest Info&Learning. All rts. reserv.

01049531 96-98924
Beyond Boole: The next logical step
Davis, Charles H
American   Society   for   Information   Science.   Bulletin   v21n5   PP: 17-20
Jun/Jul 1995
ISSN: 0095-4403   JRNL CODE: BAS
WORD COUNT: 2750

...TEXT: of skill and is meant for intermediaries or sophisticated end
users.

In its simplest form, **weighted - term** logic allows the searcher to assign
a threshold value that remains constant for each search. This threshold is
an integer to which other **terms ' weights** are compared. The searcher
then assigns every search term (a character string comprising a subject...

... record, it adds the corresponding weight to a cumulative total that
eventually becomes the total **weight** for that **document** . The total
 weight is then compared with the threshold value previously **chosen** by
the **searcher** . If the **document** **weight** is equal to or greater than the
threshold, then the document or its surrogate is...
? t22/3,k/33,38

22/3,K/33   (Item 1 from file: 553)
DIALOG(R)File 553:Wilson Bus. Abs. FullText
(c) 2003 The HW Wilson Co. All rts. reserv.

03293149   H.W. WILSON RECORD NUMBER: BWBA96043149
Copland's new abilities.
Gruman, Galen
Macworld (Macworld) v. 13 (Apr. '96) p. 40-1
LANGUAGE: English

...ABSTRACT: they want found, and Copland then creates a window that
displays all documents containing those **words** and **rates** how closely the
 document fits the search request. Apple will apply this pattern-matching
technology to more than document-content searches; the technology will also
allow **users** to **view** all applications installed on a system or all files
created by a particular user or...

22/3,K/38   (Item 2 from file: 613)
DIALOG(R)File 613:PR Newswire
(c) 2003 PR Newswire Association Inc. All rts. reserv.

00543864 20010402NEM008   (USE FORMAT 7 FOR FULLTEXT)
**Webmap Introduces Zooming Technology Platform As the Driving Force Behind
Product Line**

...link to a single
document. Categories with visual borders are then imposed. The software
then
 rates   documents - based on parameters **chosen** by WebMap's **customers**
- using a
graphical rendering algorithm that layers this data on to the WebMap as a
topographic feature. "Higher" regions indicate **documents** with **higher
ratings** ,
while "lower" regions depict documents with lower ratings.

     Because WebMap's customers can decide the...